IDR RID Report

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Originator Ruth Duerr
Phone No 907-474-6721
Organization ASF
E Mail Address rduerr@santa.asf.alaska.edu
Document DAAC unique extensions
Section CSo **Page** 9 **Figure Table**

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Review IDR
Originator Ref ASF 0106
Priority 1

Category Name ECS System-Level **Actionee** ECS
Sub Category Interfaces
Subject Availability of ECS APIs

Description of Problem or Suggestion:

The official version of ECS API software will not be available until after CSR. DAACs, like ASF, which need to interface with ECS in order to be operational will need access to API code earlier than that.

Originator's Recommendation

1) Make API code available to the DAAC ASAP.

2) Ensure DAACs have a chance to review schedules for API availability

3) Consider prioritizing API development taking into account DAAC operational needs.

GSFC Response by: Schroeder **GSFC Response Date**

Hughes has discussed the response has been discussed with the originator.

HAIS Response by: **HAIS Schedule** 11/15/95
HAIS R. E. **HAIS Response Date** 11/22/95

The API for ECS is comprised of the public interface object classes that are documented in DID 313. Much of the API is implemented as distributed objects, and its use requires a detailed understanding of distributed object programming and the OODCE environment; plus a full implementation of the ECS global infrastructure.

Full functionality of an ECS subsystem API requires a full implementation of the subsystem that is supported by the API. However, it is possible, given an environment that supports distributed object development, to perform early API testing by implementing "stubs" which emulate server functionality. The Interface Definition Language (IDL), provided by DCE, allows programmers to separate a server's API definition from its implementation. The IDL++ compiler uses the interface definition to generate the C++ code to support client/server communications required by a distributed API. The server's functionality is later added to the generated code by the application programmer.

ECS will make IDL code available to ASF begining 4Q96 to support ASF's early interface testing via "stubs". The fully functional API will be available at CSR. The preliminary version of the IDL, and the supporting infrastructure code, will be provided as is, as available, and will be subject to change.

Status **Closed** **Date Closed** **12/12/95** **Sponsor** **Schroeder**

****** **Attachment if any** ******